

SCIENCE WORK AT THE HIGH SCHOOL

FIRST IN STATE TO ADOPT HYGIENIC PHYSIOLOGY COURSE.

(Continued from last week.)

The equipment of the science laboratories at the Carbon county high school is the very best. Nothing has been omitted in fitting them with the most up-to-date apparatus. For each course in science there is a separate laboratory, where the students have plenty of room to work, and plenty of apparatus with which to solve the problems that confront them, thus opening the way for the highest efficiency to be secured by students.

The course in physiology and hygiene treats on the use and care of the human body. Emphasis is laid here, as in other courses, to make it as practical as possible, and teach the student to look at his own self and work out his own problems. Such subjects as bones, joints, ligaments, muscles, tendons, selection and preparation of foods, water and other beverages, digestion, the blood and its circulation, exercise, respiration, waste products, the skin, the nervous system, the special senses, health and disease, drugs, alcohol, tobacco, first aid to the injured, and many others are studied.

Bacteriology is the study of the organisms which play such an important part in the world today—bacteria. They are plants? For nearly all were supposed they were animals. They are the smallest of all things. Millions of them have plenty of room to live in a drop of water. Twenty-five thousand of them placed side by side would make a row only an inch long. Not all bacteria cause disease. Some are useful to man, among which are those that take a part in butter and cheese making, and those that help to increase the fertility of the land.

On the other hand there are the bacteria that enter our systems and cause disease. Nearly every disease has been traced to specific bacterium. There is a different bacterium for every disease. A few, however, have not been correlated with a certain disease germ, as smallpox, yellow fever, whooping cough and measles. We know they are caused by bacteria, but as to the kind of bacteria that is uncertain.

The laboratory work consists in growing and studying the different bacteria. Water is tested for the presence of bacteria and in what numbers. Other subjects are studied, as, the cause of disease, how disease germs get into the body and how they act; bacteria that cause skin diseases, lockjaw, diphtheria, pneumonia, etc.; catarrh, bronchitis, tuberculosis, typhoid and other bacteria that cause plant diseases, their action and remedy, distillation, sterilization, etc.

The first high school in the state of Utah to adopt a course in bacteriology was Carbon county high school. As already stated, it is a new subject, but its significance and importance is being realized more and more all the time. It will not be long until all the standard high schools will teach a course in bacteriology. The enrollment in bacteriology is exactly double this year as compared with last year.

In zoology a complete survey of the animal kingdom is gone over, and emphasis laid on the most important phases, as insects, worms, microscopical animals, fish, amphibia, reptiles, birds and mammals. Some of animals, vanishing species of animal life, fossils and other important and interesting subjects are followed. Characteristic specimens of each group of animals are dissected and thoroughly studied in the laboratory. Field trips are taken, where the student comes in direct contact with nature. The aim is to teach students to study nature, and not books alone.

And in botany, which is the study of the plant kingdom, work is given to teach the student to here study nature also along with the books.

Field trips are taken, and students learn plant life and how it is affected by environment. Plant diseases, plant breeding and many other interesting subjects are discussed.

The Family Cough Medicine.

In every home there should be a bottle of Dr. King's New Discovery ready for immediate use when any member of the family contracts a cold or cough. Prompt use will stop the spread of sickness. W. A. Riddle of Mason, Mich., writes: "My whole family depends upon Dr. King's New Discovery as the best cough and cold medicine in the world. Two or three bottles cured me of pneumonia. Thousands of other families have been equally benefited and depend entirely upon Dr. King's New Discovery to cure their coughs, colds, bronchitis and lung troubles. Every dose helps. Price, 50 cents and \$1.00. All druggists. H. C. Bucklin & Co., Philadelphia or St. Louis.—Adv.

Wanted: Agents. Reliable men to sell tea, coffee and baking soda to family trade in Ogden, Utah.

Address: Grand Union Tea Company, 56 West First South, Salt Lake City, Utah.

NOTICE TO WATER USERS—State Engineer's Office, Salt Lake City, Utah, September 17, 1913.

Notice is hereby given that L. F. Rains, whose postoffice address is Salt Lake City, Utah, has made application in accordance with the requirements of the Compiled Laws of Utah, 1907, as amended by the Session Laws of Utah, 1909 and 1911, to appropriate one-sixth (1-6) of a cubic-foot of water per second from a spring and seepage water in Spring canyon, Carbon county, Utah. Said water will be diverted at a point which bears south 10 degrees west 3,257 feet distant of the northeast corner of Section 12, Township 13 South, Range 9 East, Salt Lake base and meridian, from where it will be conveyed by means of a pipe line for a distance of 13,652 feet and there used from January 1 to December 31, inclusive, of each year, for domestic and municipal purposes. This application is designated in the state engineer's office as No. 511.

All protests against the granting of said application, stating the reasons therefor, must be made by affidavit in duplicate and filed in this office within thirty (30) days after the completion of the publication of this notice. W. D. BEERS,
State Engineer.

Date of first publication September 25, 1913, date of completion of publication October 25, 1913.

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Notice is hereby given that L. F. Rains, whose postoffice address is Salt Lake City, Utah, has made application in accordance with the requirements of the Compiled Laws of Utah, 1907, as amended by the Session Laws of Utah, 1909 and 1911, to appropriate two-tenths (2) of a cubic-foot of water per second from a spring in Spring Canyon, Carbon county, Utah. Said water is situated at a point which bears south 10 degrees west of 168 feet south of the north quarter corner of Section 22, Township 13 South, Range 9 East, Salt Lake base and meridian. The water will be diverted at the place where it issues from said spring and conveyed by means of a pipe line for a distance of 10,000 feet and there used from January 1 to December 31, inclusive, of each year, for domestic and municipal purposes. This application is designated in the state engineer's office as No. 512.

All protests against the granting of said application, stating the reasons therefor, must be made by affidavit in duplicate and filed in this office within thirty (30) days after the completion of the publication of this notice. W. D. BEERS,
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